

# Spectroscopy Kit Selection Guide

## Find the Right Solution for Your Needs

At Thunder Optics, we pride ourselves on offering a diverse range of spectroscopy kits designed to meet the needs of users at all levels, from beginners to professionals. Whether you're just starting out in the world of spectroscopy or require advanced, application-specific solutions, we have the perfect kit for you.

Our kits range from the basic and accessible Starter Kit, ideal for educational purposes, to the sophisticated Pro UV Kit designed for more demanding research environments. We also offer specialized kits, like the Gemo O Kit, tailored to specific applications such as gemology.

In this flyer, we'll provide a detailed comparison of our kits, outlining their setups, components, and prices, so you can choose the one that best fits your needs and budget.



*Explore how our kits can elevate your spectroscopy experience, whether you're a student, a researcher, or a professional.*



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| Specifications                  | Starter | Guru C                   | Guru M                   | Gemo M                   | Gemo O                   | Pro                      | Pro UV                   |
|---------------------------------|---------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Spectrometer Model              | Mini    | C                        | M                        | M                        | O                        | O                        | O                        |
| Light Source                    | Mini    | Halogen                  | Halogen                  | Halogen                  | Deuterium Halogen        | Halogen                  | Deuterium Halogen        |
| Spectrometer Range              | 350-950 | 360-880                  | 360-880                  | 360-880                  | 200-1100 (a)             | 350-1040                 | 200-1100 (a)             |
| <b>What is Included</b>         |         |                          |                          |                          |                          |                          |                          |
| Spectrometer                    | Mini    | C                        | M                        | M                        | O                        | O                        | O                        |
| Power Halogen - Deuterium (W)   | 1.4 - 0 | 10 - 0                   | 10 - 0                   | 10 - 0                   | 5 - 25                   | 10                       | 5 - 25                   |
| Cuvette Holder                  | Mini    | Three-way                | Three-way                | -                        | -                        | Three-way                | Three-way                |
| Cuvette - Plastic               | 4       | 4                        | 4                        | -                        | -                        | -                        | -                        |
| Cuvette - Quartz                | -       | -                        | -                        | -                        | -                        | 2                        | 2                        |
| Optical Fibers                  | -       | 200µm-0.5m<br>600µm-0.5m | 200µm-0.5m<br>600µm-0.5m | 200µm-0.5m<br>600µm-0.5m | 200µm-0.5m<br>600µm-0.5m | 200µm-0.5m<br>600µm-0.5m | 200µm-0.5m<br>600µm-0.5m |
| Bifurcated Optical Fiber 1-6    | -       | -                        | -                        | 1                        | 1                        | 1                        | 1                        |
| Integration Sphere              | -       | -                        | -                        | 1                        | 1                        | -                        | -                        |
| Laser 405nm                     | -       | -                        | -                        | 1                        | 1                        | -                        | -                        |
| Laser 532nm                     | -       | -                        | -                        | 1                        | 1                        | -                        | -                        |
| <b>Applications</b>             |         |                          |                          |                          |                          |                          |                          |
| Raman Spectroscopy              | n/a     | n/a                      | n/a                      | n/a                      | n/a                      | n/a                      | n/a                      |
| Irradiance - colorimetry - CEI  | n/a     | n/a                      | n/a                      | n/a                      | (b)                      | n/a                      | (b)                      |
| Photo Luminescence (PL)         | n/a     | n/a                      | n/a                      | ***                      | *****                    | n/a                      | n/a                      |
| Reflectance Spectroscopy (FORS) | n/a     | n/a                      | n/a                      | ***                      | *****                    | ***                      | *****                    |
| Environmental Science           | n/a     | **                       | **                       | n/a                      | n/a                      | ****                     | *****                    |
| Chemical processes              | n/a     | *                        | **                       | n/a                      | n/a                      | ****                     | *****                    |
| Absorbance - Transmittance      | *       | **                       | ***                      | n/a                      | n/a                      | ****                     | *****                    |
| Gemmology                       | n/a     | **                       | ***                      | ****                     | *****                    | ***                      | ***                      |
| Food & Agriculture industry     | n/a     | *                        | **                       | **                       | **                       | ****                     | *****                    |
| Forensic analysis               | n/a     | *                        | *                        | **                       | **                       | ****                     | *****                    |
| Education                       | *****   | *****                    | *****                    | ***                      | **                       | *****                    | *****                    |
| <b>Price</b>                    | *       | **                       | **                       | ***                      | *****                    | ***                      | ****                     |